PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220							
DM/mr/J1884	Action		as, where applicable, item 5 below.							
International application No.	International filing date (day/month/	year)	(Earliest) Priority Date (day/month/year)							
PCT/GB2004/004016	20/09/2004		24/09/2003							
Applicant		I								
RCV ENGINES LIMITED										
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.										
This International Search Report consists of a total of sheets.										
It is also accompanied by a copy of each prior art document cited in this report.										
Basis of the report										
 a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 										
The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).										
b. With regard to any nucleo	otide and/or amino acid sequence o	lisclosed in	the international application, see Box No. I.							
2. Certain claims were four	nd unsearchable (See Box II).									
3. X Unity of invention is lac	king (see Box III).		· •							
4. With regard to the title,										
X the text is approved as su	bmitted by the applicant.		•							
the text has been establis	hed by this Authority to read as follow	s:								
	·									
			·							
8										
5. With regard to the abstract,										
the text is approved as su	bmitted by the applicant.									
the text has been establis may, within one month fro	hed, according to Rule 38.2(b), by this om the date of mailing of this internation	s Authority a mal search r	us it appears in Box No. IV. The applicant report, submit comments to this Authority.							
6. With regard to the drawings,			·							
a. the figure of the drawings to be published with the abstract is Figure No1										
X as suggested by										
as selected by thi	s Authority, because the applicant faile	ed to sugges	st a figure.							
	s Authority, because this figure better									
b. none of the figures is to b	e published with the abstract.									

International application No. PCT/GB2004/004016

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-31, 51
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-31,51

claims 1-31,51 relate to a cooling mechanism for a rotary valve cylinder engine including specifically as at least one passage formed in the rotary valve cylinder through which in use, cooling fluid flows.

2. claims: 32-41,52

claims 32-41 relate to a cooling mechanism for a rotary valve cylinder engine including specifically a heat sink monted directly to an upper part of the rotary valve cylinder, so as to rotate with it an be exposed to open air. This second inventive concept of a cooling mechanism does not require any passage formed in the rotary valve cylinder throung which in use a cooling fluid flows: the special technical feature reagrded as essential for the first inventive concept is completly absent in this second inventive concept.

3. claims: 42-50

claims 42-50 relate to a cooling mechanism for a rotary valve cylinder engine including specifically a thermal insulation at the valve port formed on the outer cylindrical valve element.

This third inventive concept of a cooling mechanism does not require any passage formed in the rotary valve cylinder throunds which in use a cooling fluid flows, not any heat sink monted directly to an upper part of the rotary valve cylinder, so as to rotate with it an be exposed to open air: the special technical features regarded as essential for the first inventive concept or for the seocnd inventive concept are not involved at all in this third inventive concept.

INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2004/004016

A. CLASSIFICATION OF SUBJECT MATTER
1PC 7 F01B15/00 F01L7/04 F02B75/34 F01P3/02 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) FOIB FOIL FOIP FO2B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. GB 2 020 739 A (BARBAGALLO S; BUCCHERI E) X 1,3-7,9, ŽŹ-26, 21 November 1979 (1979-11-21) 30,31 figures 2,6,7 10,27-29 Y DE 669 345 C (WILHELM SCHMIDT) 1.2 23 December 1938 (1938-12-23) Y the whole document 27-29 US 5 191 863 A (HAGIWARA AKIRA) 1,2,4,5 9 March 1993 (1993-03-09) figures 1,2 **1**A Y GB 2 129 488 A (MILNER JAMES) 10 16 May 1984 (1984-05-16) figures 8,9 -/--Further documents are listed in the continuation of box C. X Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document. "O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report **2** 5, 04, 2005 20 December 2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Risswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Clot, P

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2094/004016

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4	WO 98/03781 A (RCV ENGINES LIMITED; LAWES KEITH TREVOR (GB)) 29 January 1998 (1998-01-29) figure 1	1-31			
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